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       AKIYAMA, Kayo
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<150> JP 2002-342287
<151> 2002-11-26
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Met Val Ala Phe Glu Ser Leu Trp Pro Gln Asn Leu
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tca tgc aca aga gta tat agc gca aaa gaa atc act agt ctt gat tct
Ser Cys Thr Arg Val Tyr Ser Ala Lys Glu Ile Thr Ser Leu Asp Ser
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atg ttg acg atg ccg ata ccc gag tac ctg cac gaa att tta gat gat
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Met Leu Thr Met Pro Ile Pro Glu Tyr Leu His Glu Ile Leu Asp Asp
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Val Arg Asp Thr Thr Ser Gly Glu Leu Ala Asp Tyr Ile Pro Glu Leu
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aaa tct gcc gac cca aac ccg ctg gca gta gcc ctg tgc acc gtt aac
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Lys Ser Ăla Ăsp Pro Asn Pro Leu Ăla Val Āla Leu Cys Thr Val Asn
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                                             70
gga cac atc tac agc gca ggc gat gac gac atc gaa ttc acc atg caa
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Gly His Ile Tyr Ser Ala Gly Asp Asp Ile Glu Phe Thr Met Gln
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agt att tcc aag ccc ttt gcc tac gca ctc gca ctc caa gaa tgc ggc
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Ser Ile Ser Lys Pro Phe Ala Tyr Ala Leu Ala Leu Gln Glu Cys Gly
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Phe Asp Glu Val Ser Ala Ser Val Ala Leu Glu Pro Ser Gly Glu Ala
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ctt Leu	gct Ala	gga Gly 175	cgc	gaa Glu	ctc Leu	acc Thr	atc Ile 180	gac	cgc Arg	gtg Val	ctt Leu	gcc Ala 185	gaa	tcc Ser	gaa Glu	1237
ctc Leu	gcc Ala 190	ggc Gly	gcc Ala	gac Asp	cgc Arg	aac Asn 195	ctc Leu	tcc Ser	atc Ile	gcc Ala	cac His 200	atg Met	ctg Leu	cgc Arg	aac Asn	1285
tat Tyr 205	ggc Gly	gtc val	atc Ile	gaa Glu	gac Asp 210	gaa Glu	gcc Ala	cac His	gac Asp	gcc Ala 215	gtc Val	ctc Leu	agc Ser	tac Tyr	acg Thr 220	1333
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gcc Ala	acg Thr	ctc Leu	gcc Ala 240	gcc	ggc Gly	ggc Gly	acg Thr	cac His 245	cca	att Ile	acc Thr	ggc Gly	aag Lys 250	aag	ctt Leu	1429
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cac His	ctt Leu	atg Met 335	tcc Ser	acc Thr	gag Glu	cag Gln	gta Val 340	tcc Ser	ggc Gly	cac His	gca Ala	gta Val 345	cga	tcc Ser	att Ile	1717
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ccc Pro	gta Val	gcc Ala	atc Ile 400	cgc Arg	atg Met	atc Ile	aaa Lys	gaa Glu 405	ggc	ctc Leu	aaa Lys	cgc Arg	atc Ile 410	cgc	gac Asp	1909
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275 280 285 Val Ala Gly Gly Leu Ile Gly Ile Leu Pro Gly Gln Leu Gly Ile Ala 290 295 300 Thr Phe Ser Pro Arg Leu Asn Pro Lys Gly Asn Ser Val Arg Gly Val Lys Ile Phe Lys Gln Leu Ser Asp Asp Met Gly Leu His Leu Met Ser Thr Glu Gln Val Ser Gly His Ala Val Arg Ser Ile Thr Arg Asp Gly Asp Thr Thr Phe Ile Gln Met Gln Gly Ala Met Asn Phe Ser Ala Ser Glu Ser Phe Leu His Ala Ile Val Glu His Asn Phe Glu Gly Thr Glu Val Val Leu Asp Leu Thr Arg Val Leu Ser Phe His Pro Val Ala Ile Arg Met Ile Lys Glu Gly Leu Lys Arg Ile Arg Asp Ala Gly Phe Glu Val Phe Ile Leu Asp Pro Asp Asp Val Leu Pro Asp Phe Met Phe Ser Asp Gly Thr Ile Cys Lys Glu Arg Val

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                                                                                             1614
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                                             240
                                                                         245
atc aag aac acc gct cgc ctc cac ggc aag gct gca acc ttc atg cct
                                                                                             1662
Ile Lys Asn Thr Ala Arg Leu His Gly Lys Ala Ala Thr Phe Met Pro
           250
                                       255
                                                                   260
aag cca ctg gct ggc gac aac ggt tcc ggc atg cac gct cac cag tcc
Lys Pro Leu Ala Gly Asp Asn Gly Ser Gly Met His Ala His Gln Ser
                                                                                             1710
                                 270
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ctc tgg aag gac ggc aag cca ctc ttc cac gat gag tcc ggc tac gca
Leu Trp Lys Asp Gly Lys Pro Leu Phe His Asp Glu Ser Gly Tyr Ala
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280
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                                                        290
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ggc ctg tcc gac atc gcc cgc tac tac atc ggc ggc atc ctg cac cac Gly Leu Ser Asp Ile Ala Arg Tyr Tyr Ile Gly Gly Ile Leu His His
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gca ggc gct gtt ctg gcg ttc acc aac gca acc ctg aac tcc tac cac
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Ála Ğly Ála Val Leū Álā Phe Thr Asn Ála Thr Leū Asn Ser Tyr His
                                             320
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cgt ctg gtt cca ggc ttc gag gct cca atc aac ctg gtg tac tca cag
Arg Leu Val Pro Gly Phe Glu Ala Pro Ile Asn Leu Val Tyr Ser Gln
                                                                                            1902
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cgc aac cgt tcc gct gtc cgt atc cca atc acc gga tcc aac cca
Arg Asn Arg Ser Ala Ala Val Arg Ile Pro Ile Thr Gly Ser Asn Pro
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aag gca aag cgc atc gaa ttc cgc gct cca gac cca tca ggc aac cca
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Lys Ala Lys Arg Ile Glu Phe Arg Ala Pro Asp Pro Ser Gly Asn Pro
360
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                                                        370
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tac ctg ggc ttc gca gcg atg atg gcc ggc ctc gac ggc atc aag
Tyr Leu Gly Phe Ala Ala Met Met Met Ala Gly Leu Asp Gly Ile Lys
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                                                  385
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aac cgc atc gag cca cac gct cca gtg gac aag gac ctc tac gaa ctg
Asn Arg Ile Glu Pro His Ala Pro Val Asp Lys Asp Leu Tyr Glu Leu
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cca cca gag gaa gct gca tcc att cca cag gca cca acc tcc ctg gaa
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Pro Pro Ğlü Ğlu Ala Ala Ser Ile Pro Glñ Ala Pro Thr Ser Leŭ Ğlü
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                                       415
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Ala Ser Leu Lys Ala Leu Gln Glu Asp Thr Asp Phe Leu Thr Glu Ser
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gac gtc ttc acc gag gat ctc atc gag gcg tac atc cag tac aag tac Asp Val Phe Thr Glu Asp Leu Ile Glu Ala Tyr Ile Gln Tyr Lys Tyr
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440
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Asp Asn Glu Ile Ser Pro Val Arg Leu Arg Pro Thr Pro Gln Glu Phe
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                                                  465
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gaa ttg tac ttc gac tgc taa ttcacttagc tagccgatag cggaaacccc Glu Leu Tyr Phe Asp Cys \,
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                475
ctgaaattct tcattgaatt tcagggggtt tcttttttac attccaccta aaaggaaagc 2397
gccggatcct ccatcatggt ggatccggcg cttttatcta tttgtttttg ggctagatgc 2457
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Asp Pro Phe Thr Arg Glu Ala Phe Ser Arg Asp Pro Arg Asn Val Ala
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Ser Thr Glu Met Asn Ser Gly Phe Tyr Glu Val Asp Thr Glu Glu Gly 145 150 155 160
Trp Trp Asn Arg Gly Lys Glu Thr Asn Leu Asp Gly Thr Pro Asn Leu
165 170 _ _ 175
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180 185 190
Asp Gln Thr Val Asp Val Arg Asp Asp Met Val Arg Asn Leu Ala Ala
195 200 205
Ser Gly Phe Ala Leu Glu Arg Phe His His Glu Val Gly Gly Gln 210 215 220
Gln Glu Ile Asn Tyr Arg Phe Asn Thr Met Leu His Ala Ala Asp Asp
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                                           235
                                                                  240
Ile Gln Thr Phe Lys Tyr Ile Ile Lys Asn Thr Ala Arg Leu His Gly
                 245
                                       250
Lys Ala Ala Thr Phe Met Pro Lys Pro Leu Ala Gly Asp Asn Gly Ser
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             260
                                   265
Gly Met His Ala His Gln Ser Leu Trp Lys Asp Gly Lys Pro Leu Phe
275 280 285
His Asp Glu Ser Gly Tyr Ala Gly Leu Ser Asp Ile Ala Arg Tyr Tyr 290 295 300
Ile Gly Gly Ile Leu His His Ala Gly Ala Val Leu Ala Phe Thr Asn
                     310
                                            315
                                                                  320
Ala Thr Leu Asn Ser Tyr His Arg Leu Val Pro Gly Phe Glu Ala Pro
                 325
                                       330
Ile Asn Leu Val Tyr Ser Gln Arg Asn Arg Ser Ala Ala Val Arg Ile
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Pro Ile Thr Gly Ser Asn Pro Lys Ala Lys Arg Ile Glu Phe Arg Ala
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                                                    365
Pro Asp Pro Ser Gly Asn Pro Tyr Leu Gly Phe Ala Ala Met Met Met
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Ala Gly Leu Asp Gly Ile Lys Asn Arg Ile Glu Pro His Ala Pro Val
                     390
                                           395
Asp Lys Asp Leu Tyr Glu Leu Pro Pro Glu Glu Ala Ala Ser Ile Pro
                 405
                                       410
                                                             415
Gln Ala Pro Thr Ser Leu Glu Ala Ser Leu Lys Ala Leu Gln Glu Asp
420 425 430
Thr Asp Phe Leu Thr Glu Ser Asp Val Phe Thr Glu Asp Leu Ile Glu 435 440 445
Ala Tyr Ile Gln Tyr Lys Tyr Asp Asn Glu Ile Ser Pro Val Arg Leu
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